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DATE: April 2, 2003

TO: Examiner Ralph Gitomer

FROM: Arthur Morgenstern

Our File: CCDLT-300XX

Your Ref: Ser. No. 09/626,566

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MESSAGE

PLEASE DELIVER DIRECTLY TO EXAMINER GITOMER

Examiner Gitomer:

Per your request, enclosed is a table showing structures that we believe should be searchable in STN or other databases and which represent the various structures claimed in claim 4 and its dependent claims (claims 4-17).

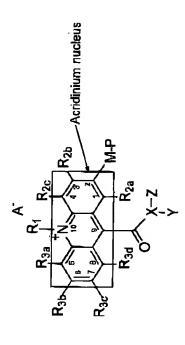
Arthur S. Morgenstern

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288923

Examples of chemiluminescent substrates of hydrolytic enzymes based on Claim 4



In the table, L equals to Lumi (Luminescent moiety), having the following structure:

2	•	Example of education		
			Example of hydrolytic enzyme	Support in page # and claims
0	Po ₃ B	L-O-PO ₃ Na ₂	Alkaline Phosphatase and	P.22, L.3-5
		L-0-Po ₃ H ₂	Acidic Phosphatase	P.31, L.11-22
	b is a divalent cation or two	L-O-PO ₃ K ₂		P.32 formula VII
	monovalent cations. It can	L-O-PO ₃ Ca		Structures 1A, 1C, 1E.
	be Na ₂ , H ₂ , K ₂ , Ca or Mg.	L-O-PO ₃ Mġ		1G and 11
0	PO,R	9 09 0	Observed	Cidmins 4-17
)		A-EO-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-	Pnosphodiesterase	P.22, L.3-5
		R = alkyi group		
0	0=		Cholinesterase	P.22, L.17-18
	E-0	0=		
	R = alkyl group	L—0—Ü-CH3		
0	0=		Lipase	P.22, L.17-18
	C-R	0=		
	R = alkv group	L-0-C-R		
		R = fong hydrocarbon		
		chain		
0	SO ₃ B	L-0-S03Na2	Sulfatase	P.22, L.17-18
	B is a divalent cation or two	L-0-503F2 L-0-503F3		
_	monovalent cations. It can	L-0-So ₃ c _a		
0	Sugar mojety	L-O-SO3Mg		-
			p-calactosidase	F.22, L.6-9
	Sugar moiety	CH20H	α-Galactosidase	P.22, L.6-9
		5		
		Ho		

СH ₂ OH α-D(-)-Glucosidase P.22, L.6-9	1-0 Ho Ho	CH ₂ OH O	CH ₂ OH α-Mannosidase P.22, L.6-9	CH ₂ OH OH OH NH-COCH.	OH CH ₂ O O L B-Fucosidase P.22, L.6-9	C Various peptidases and P.22, L. 10-16 H II proteases depending on sequences of peptides and R = peptides with different sequences	Lipase P.22, L.17-18
Sugar molety		Sugar molety	Sugar molety	Sugar moiety	Sugar moiety	eptide molety	O=0 &-
0	(0	0	0	0	Z	ν.